Requesting an SMS from the inbox folder in Qt

This code snippet demonstrates how to request SMS messages from the device's **inbox** folder in Qt, using the Qt Mobility Messaging module.

Qt project file

Link the Messaging Qt Mobility module to the project.

```
CONFIG += mobility
MOBILITY = messaging
```

Using Messaging requires the ReadDeviceData and WriteDeviceData capabilities from Open Signed Online. For more information, see the User guide: Symbian Signed.

```
symbian {
TARGET.CAPABILITY = ReadUserData \
    WriteUserData \
    ReadDeviceData \
    WriteDeviceData
}
```

Header

```
#include <QtGui/QMainWindow>
#include <QPointer>
#include <QMessageBox>

// QtMobility
#include <qmessage.h>
#include <qmessageservice.h>
#include <qmessagemanager.h>
QTM_USE_NAMESPACE

class qtSnippets : public QMainWindow
{
    Q_OBJECT

public:
    qtSnippets(QWidget *parent = 0);
    ~qtSnippets();

    // Execute query using filters
    void queryMessages();

public slots:
    // Listens messagesFound() signal of QMessageService
    void messagesFound(const QMessageIdList&);

private:
    QPointer<QMessageService> m_service;
    QPointer<QMessageManager> m_manager;
};
```


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Source

```
qtSnippets::qtSnippets(QWidget *parent)
    : QMainWindow(parent)
{
    // QMessageService class provides the interface
    // for requesting messaging service operations
    m_service = new QMessageService(this);
    QObject::connect(m_service,
        SIGNAL(messagesFound(const QMessageIdList&)),
        this,
        SLOT(messagesFound(const QMessageIdList&)));

    // QMessageManager class represents the main interface for storage and
    // retrieval of messages, folders and accounts in the system message store
    m_manager = new QMessageManager(this);

    // Query messages
    queryMessages();
}

qtSnippets::~qtSnippets()
{
}

void qtSnippets::queryMessages()
{
    // Create filers for query, we query SMS messages
    // that exists in the inbox folder
    QMessageFilter queryFilter(QMessageFilter::byType(QMessage::Sms) &
        QMessageFilter::byStandardFolder(QMessage::InboxFolder));

    m_service->queryMessages(queryFilter);
    // NOTE: qtSnippets::messagesFound() is called if messages found
}

void qtSnippets::messagesFound(const QMessageIdList &ids)
{
    foreach(const QMessageId& id, ids)
        {
        // Get QMessage
        QMessage message = m_manager->message(id);
        // Get message string
        QString messageString = message.textContent();
        // Show to user
        QMessageBox::information(this,"Incoming SMS",messageString);
        }
}
```

Postconditions

Existing SMS messages found in the **inbox** folder.

See also

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- Setting up Qt Mobility
- http://doc.qt.nokia.com/qtmobility-1.0/messaging.html
- User guide: Symbian Signed
- http://www.symbiansigned.com

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